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# VR1

## HD Digital Video RoadCorder

## User Manual

R07

June 2013

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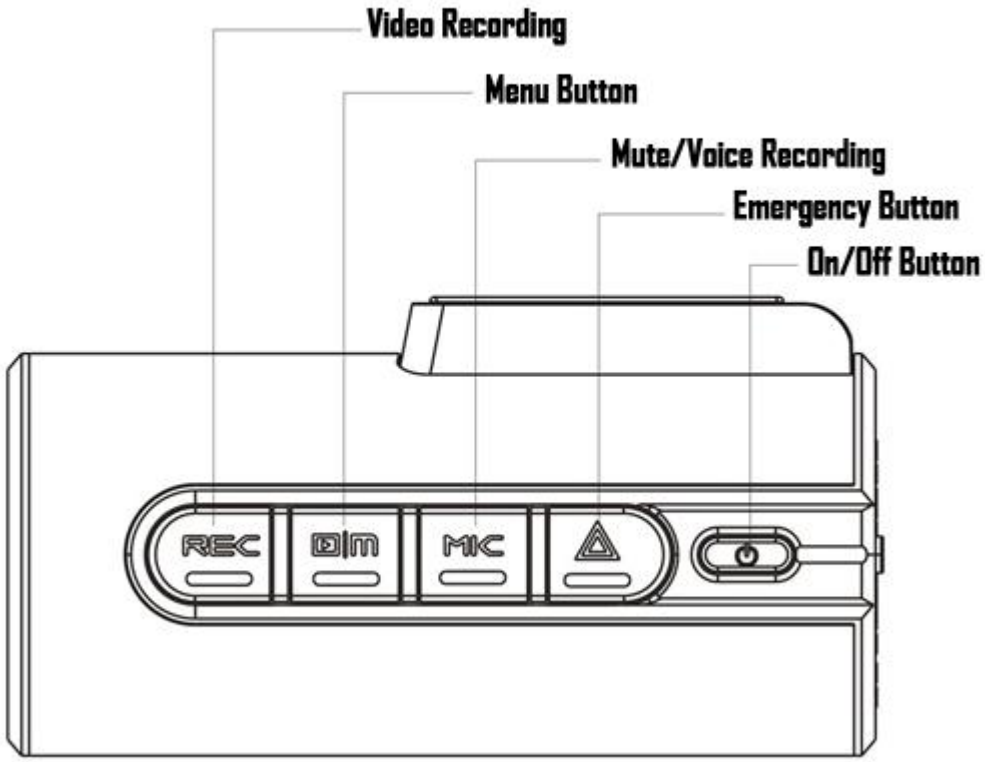
**Annex A**





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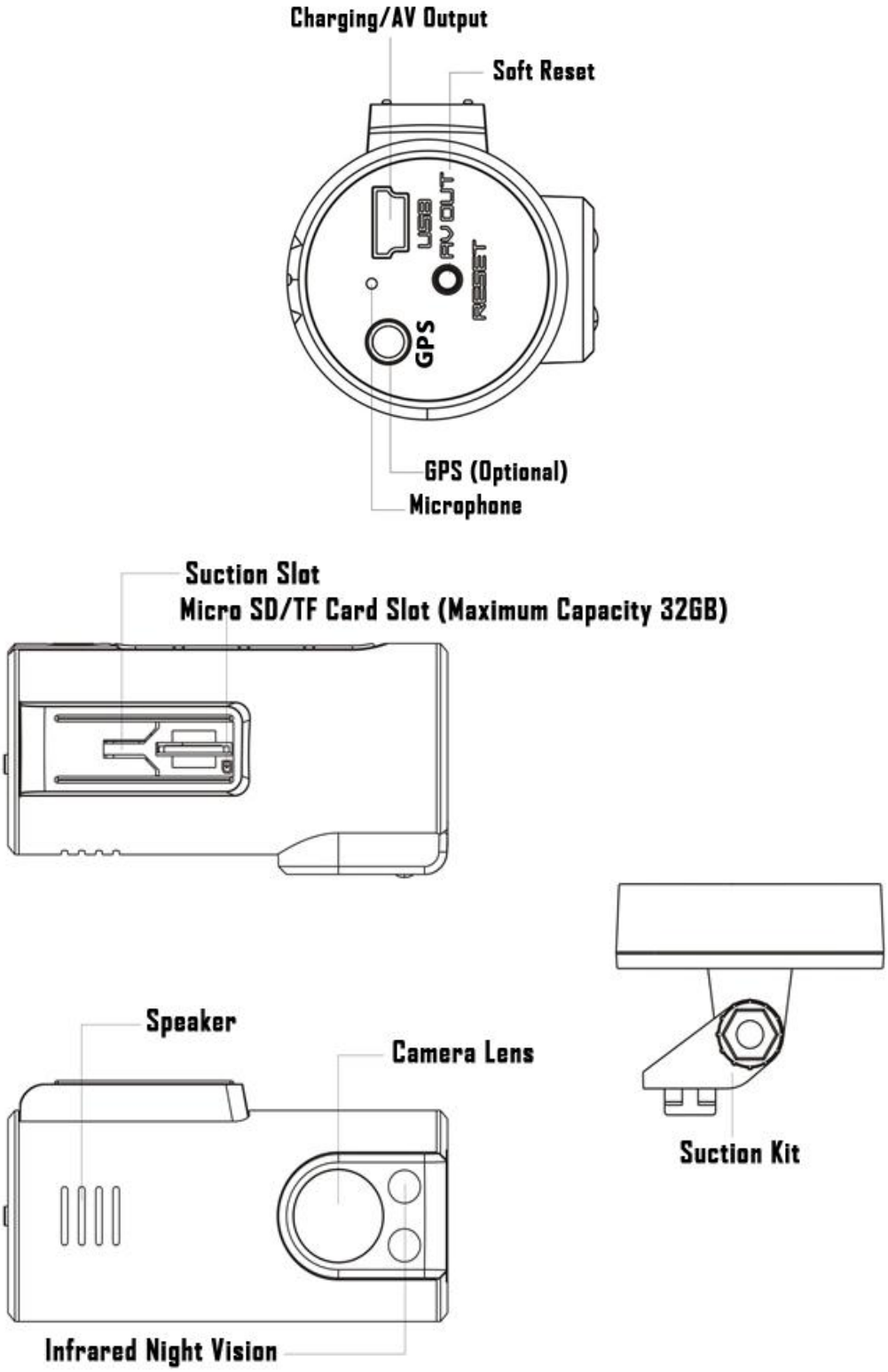
**Annex B**




**NOTE: In this user manual, you will find the use of "TF Card" in the content below. We wish to assure you that TF Card is the same as MicroSD Card. You may find "MicroSD Card" more commonly seen in your country and you'll have our assurance when you purchase a MicroSD card to fit into your Marbella VR1.**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## Technical Specifications

| | |
|---|---|
| Resolution | 1280x720 HD or 720x640 VGA |
| Lens | 120 degrees wild-angle lens |
| Night Vision | Built in infrared lens |
| Language | English/Simplified/Chinese/Traditional/Chinese/Japanese/Korean/Russian |
| Video Format | AVI |
| TF Memory Card Slot | Micro SD Card or TF Card |
| Microphone | Built-in speaker but voice recording can be disabled |
| Vehicle Power DC Input | 5V 500MA |
| Battery | Built-in polymer Li Battery |
| System Requirement | Windows 2000/XP/Vista/Windows 7/MAC OS x 10.3.6 or above |
| GPS | Optional GPS logger |
| AV-Output | NTSC/PAL |
| Storage Capacity | Micro SD Card or TF Card. Maximum up to 32GB |
| Picture Format | Jpeg |
| Camera Lens Type | CMOS Sensor |
| Emergency Button | Standard |
| Reset Button | Yes |
| Charging | Via Mini USB Port |

## General Troubleshooting

| Question | Reason | Solution |
|---|---|---|
| Can not turn on | Low battery | Charge the battery |
| Auto power-off | Automatic shutdown function is enabled;<br>Low battery | Enter the setup menu to change[shutdown time]to off<br>Charge the battery. |
| The captured image is not stored in the memory | Not save the image before power outage | when using, need to press stop button before shut down or the DVR auto shutdown after unplug the charger. |
| All buttons are invalid | Procedural error or faulty operation | Press RESET button to restart the DVR. |


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**Getting started with the Marbella VR1**

## 1. Charging the Battery

There are two ways to charge the battery:

1 · Connect the device to the computer using the USB cable to charge;

2 · Connect the device to car charger to charge;

3 · The red indicator will light on during the charging process and the charging light will automatically turn off once the process completed.

4 · The whole charging process will last for about 120 minutes or 2 hours equivalent.

## 2. FORMAT THE MEMORY CARD (Micro SD or TF Card)

Requirement for Micro SD card: The Micro SD card for this product is required a minimum of 4GB or above in capacity and CLASS4 or above in speed. Maximum capacity for the Micro SD card is 32GB and Micro SD Card is NOT a standard accessories.

You will be asked to format your Micro SD or TF card when you use Marbella VR1 for the first time. You will not be able to record, photograph or play back your recorded video or image without formatting your Micro SD or TF card.

Playback the recorded image, video only through AP Software and this AP software will be installed automatically once you format your Micro SD or TF card for the very first time.

If you perform the formatting action, all data in the card will be deleted permanently (including locked files) and can't be restored. Please consider to back up your data before you format the memory card. Maka GPS Technologies Group do not held any responsibility for any loss of file.

Note: After formatting the Micro SD/TF card, Marbella VR1 will generate the AP software in the card for the customer to use.

NOTE: For those users who have opt for the GPS function, the time zone will be set automatically once you activate your AP software for the first time. If you haven't done this action, the display screen will show and the GPS positioning can't provide time service. Other features will function normally.

GPS Function is NOT a standard function and this is an optional function. Please


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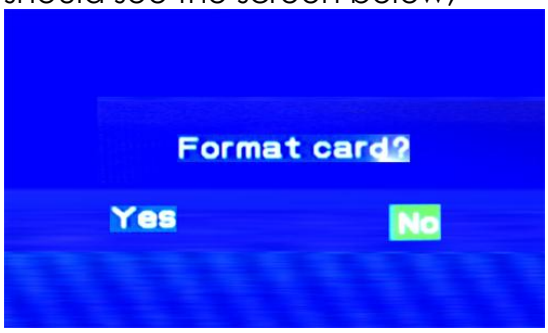
contact your nearest branch under Maka GPS Technologies Group or a MARBELLA Authorized Service Provider ("MASP")

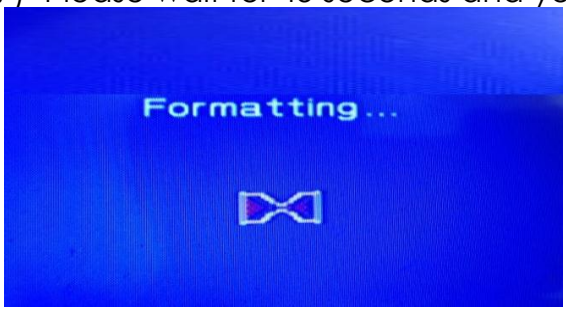
## 2.1 HOW TO FORMAT YOUR MICRO SD/TF CARD?

1) Switch on the Marbella VR1 by pressing the ON/OFF button for 2 seconds
2) Find the AV-Out Cable from your VR1 package and connect your Marbella VR1 to an device that supports AV-IN such as Marbella GPS

3) Please ensure you have sufficient power to support the AV-OUT. Please charge the VR1 for 15 minutes if you are running low power.
4) Once you switch ON your VR1 and connected the AV-OUT cable, you should see the screen below;




5) Press Once on the MIC button to move the green cursor to the left and select "Yes"
6) Press Once on the REC button to confirm your selection
7) Please wait for 45 seconds and you will hear a short "beep" sound.




8) Upon success of formatting your SD card, you will also see both REC and MIC blinking and flashing.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### 3. Start Video Recording

Once again, please format the Micro SD or TF card by connecting to an external AV-IN device such as Marbella GPS before you can start to record video or photograph.

Once you insert the Micro SD/TF card, the Marbella VR1 will start recording your video, take still images. Marbella recommends MicroSD with a minimum capacity of 4GB and this supports maximum up to 32GB. Use of MicroSDHC is compatible and recommended.

You may charge the Marbella VR1 from the power charger provided by our original package. It is recommended to plug in the car charger at all times to prevent any missed of recording opportunity during the accident or any fatal incident.

Turn on the Marbella VR1 by pressing the ON/OFF button. Marbella VR1 will switch on and off automatically if you have connected your Marbella VR1 to your car cigarette lighter.

**※ CAUTION: To protect your device against sudden surges in current, we highly recommend you to connect the car charger only after the car engine has been started.**

Switch Mode: Marbella VR1 has two operating mode: you may switch between Video or Photography. However, Marbella VR1 will automatically start with the video recording mode and you may press the “Menu” button when you wish to switch to the photo mode. You may short press on the “Menu” button if you wish to switch back to the video recording mode.

### 4. Adjusting the Lens Position

The front lens of this project can rotate 360 degrees from the front to the back and get better video effect even the position of the Car DVR is fixed.

### 5. Powering On and Off

Manually powering on and off: Press the power button for a few seconds and the red indicator lights on. Marbella VR1 will power on after the tick and take videos. Press the power button continuously again and the product will power off.

Automatically powering on and off during the driving: Firstly plug in the car charger and when the engine starts, Marbella VR1 will power on and take videos automatically. When the engine stops or the VR1 is removed from the car charger it will save the current video and power off in 15 seconds.


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Note: If the Car DVR is using the built-in power and in low power state, it will provide a warning message and then power off automatically.

### 6. Resetting

If unusual situation occurs due to improper operations, please press the reset key and power on the product again, the recorder will resume normal function.

**BEFORE YOU WISH TO MAKE ANY CHANGES on Marbella VR1 PLEASE TAKE NOTE that you are required to connect to an external LCD/LED monitor supports AV-in. You may also connect to Marbella GPS with an AV-INPUT function.**

**Since VR1 has one port that shares both AV-output and charging function, please ensure you have sufficient battery before you wish to connect (AV-Out) to an external monitor to view your recording footage or make any changes in setting.**

### 7. Basic Operations for the Marbella VR1

#### Switching the Operating Mode

Two operating modes are available for Marbella VR1: video and replay. You can switch between these modes by pressing the MENU button.

Under the video mode, you can press the MENU key to start or stop taking videos.

Under the replay mode, the videos files are ordered by the time sequence. You can press the left and the right keys to view them and press the OK key to play the selected video.

### 8. Setting the Menu

Press the MENU under the "Preview" mode, and you will enter the “System Setting Menu” page. The background of the “Menu Setting” field is blue now. You can press the up and down keys to select necessary setting options, then press "OK" to confirm the setting. If you press the MENU key again, you will exit the menu.

Resolution： 1280*720P HD or 640*480P VGA Mode

Time Setting: Press the left and right keys to adjust the hours and then press the OK

Formatting: Press the OK key to enter and select Yes/No;

TV Format: Set NTSC/PAL;
(Countries using PAL system is stated below, if your residence country is not stated below, your TV format will be PAL.
Canada, Chile, Costa Rica, Cuba, Dominican Republic, Ecuador, Japan, Mexico. Nicaragua, Panama, Peru, Philippines, Puerto, Rico, South Korea, Taiwan and U.S.A)


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Prompt Tone: On/Off;

Recording: On/Off;

Language: English/Simplified Chinese/Traditional Chinese/Japanese/Korean

Automatic Video Protection Sensitivity: Low/Medium/High/Turn off the automatic video protection function;

(This function sets the G-sensor sensitivity to lock videos automatically)

Frequency: 50HZ/60HZ.

Default Setting: Yes/No (Selecting Yes will restore to the factory default parameter settings)

## 9. Taking Videos

Begin/Stop to take videos: The product will begin to take videos automatically after it starts up or you insert the Micro SD or TF card. Press the MENU key to stop the process and press it again the resume the video process.

## 10. Shortcut Applications during the Video Process

The Up key: Turn off/on the audio recording

The Left key: Switch the full screen display between front lens and back lens (only function if you select both lenses mode).

MENU key: Manually lock the current video in case of emergency.

MODE key: Save the current video, stop the process and switch to the replay mode. Press this key again can exit the replay mode and resume the video process.

## 11. Instructions for Reading Videos and Using the AP Software

You will not be able to read the recorded video or image directly through USB connection to your PC. We strongly advised you to remove the Micro SD or TF card and insert into supported devices such as PC, Mac or Tablet to read videos.

After you insert the Micro SD or TF card into Marbella VR1 and once you have formatted your Micro SD or TF Card, Marbella VR1 will automatically generate the a AP software

. You must use this AP software to access recorded files from the computer.

Note:

1. For the convenience of use, as well as to prevent the software tool from damaging due to the memory card exceptions, we recommend that you back up the your recorded footage and save it on the computer.


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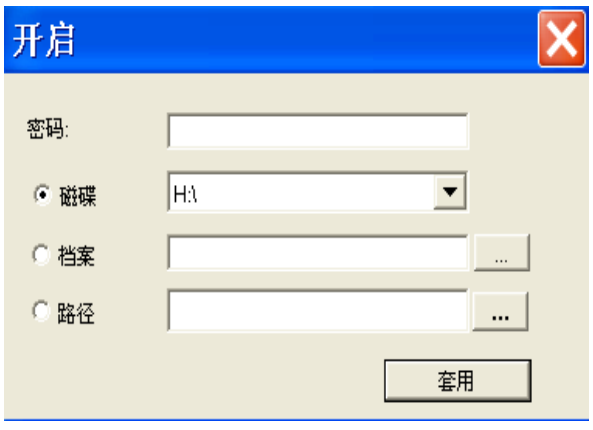
2. The computer OS must be Windows 2000/XP/Vista/Windows 7/MAC OS x 10.3.6 or above.

## 12. Instructions for Using the AP Software

If you open the Micro SD or TF card disk on ADR Player, you can't see any other video files but only the J PLAYER ADR Player software. Users need to read video and perform other actions with the help of this software.

## 13. Reading and Playing Video Files




After clicking a menu will pop up for you to select the file to open.

Disk: Read all contents in the specified Micro SD /TF card.

File: Import and play the specified file, which is already saved on the PC.

Path: Import all video files under the specified PC folder to AP.

Password: If you select the Micro SD/TF card and this card is encrypted, you need to enter the password here to read files in this card.

After selecting paths above, please click "Apply" and you will return to the AP interface to play videos.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You can control the play status by clicking .The buttons from left to right correspond to functions of rewind/stop/play (pause)/fast-forward.

You can select the lens channels to play videos by clicking : both lenses/the front lens/the back lens. (Limited to files recorded by double lenses)

While playing the video, you can click to save the current frame as an image.

## 14. Archiving Video Files

There are two ways to archive the video file: archiving the complete video file or archiving part sections of a video file.

Archiving the complete video file: you only need to check the files the needs and then click to save the files to the specified location.

Archiving video sections: Except the complete video file, Marbella VR1 also produces a video loop of three minutes per a video clip. You can archive these sections to decrease the file size. Please place your cursor on the video file you want to archive and you don't need to check the file , and then click . The following dialogue box displays. You just need to check the sections that need archiving and then click "Archive".

## 15. Deleting Files:

Please select video files you don't need any more ☑ and click , then select "OK" in the "OK/Cancel" options displayed. The selected file will be deleted.

## 17. Fixing Files:

During the video process, card issues or sudden power loss may cause the current video file to be damaged . You can use to fix the damaged files.

## 18. GPS Positioning and Applications (Optional Function)

There are two requirements for this application: the GPS has already positioned successfully when taking videos and the current PC has network connection.

If the GPS has already positioned successfully when taking videos, information about longitude and latitude as well as speed will display on the top of the AP screen:

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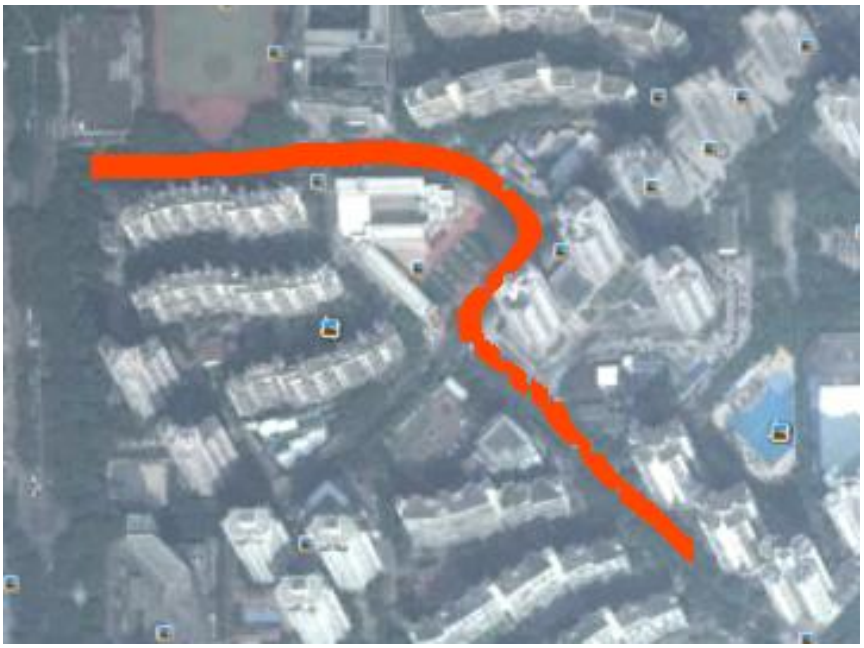

Now you can click to turn the map on or off.

countries, please contact GOOGLE). GOOGLE Earth KML Application:

By clicking you can download the GPS positioning data and save as *.KML file.

Then you can use Google Earth (http://www.google.com/earth/index.html) to restore the complete driving routes.

### 19. Using the Toolkit：

You can enter the toolkit by clicking . Through the toolkit, you can format the Micro SD or TF card, upload software to the Micro SD or TF card, test the Micro SD


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or TF card's speed, select maps and set user password.

Setting the Password: For confidential and security purpose, users can encrypt the Micro SD or TF card. After that, only users with the correct password can open videos in the encrypted Micro SD or TF card.

## 20. Unique Selling Point of Marbella VR1

Marbella VR1 has a compact and sleek size and yet equipped with high definition lenses. The front lens can rotate 360 degrees from the front to the back with 120 degrees wide angel CMOS lens.

Marbella VR1 is suitable for taking high resolution videos on all occasions and from various angles.

- Built-in 1/4 inch sensor component with low noise and high quality can capture high definition images under dark occasions

- Built-in Li Battery supports to take videos while charging

- Built-in microphones

- Supports the high capacity Micro SD card or TF Card up to 32GB

- Supports to take videos automatically once the engine starts

- Supports to delay the startup in case the transient pulse current when the engine starts may damage the device

- Optional GPS scan positioning and driving routes logging.

- Gravity G-sensor

- The video encryption function can protect users' privacy by setting password.


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